| In | de | ex · | of | CI | aiı | ns |  |
|----|----|------|----|----|-----|----|--|
|    |    |      |    |    |     |    |  |

| Applica | tion/Contro | ol No. |
|---------|-------------|--------|
|---------|-------------|--------|

09/832,870

Examiner

Jamieson W. Fish

Applicant(s)/Patent under Reexamination

PACK ET AL. Art Unit

2617

| <b>√</b> | Rejected |
|----------|----------|
| _        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|       |  | <u> </u>   |  |          |  |  | ١.       |  | Ь_       | <u> </u> |  |  |
|-------|--|--|--|----------|--|--|----------|--|----------|----------|--|--|
| Cla   | im                                     | Date   |  |          |  |  |          |  |          |          |  |  |
| ٥١٥   | 4 41 4 1                               | Date   |  |          |  |  |          |  |          |          |  |  |
| aj    | Original                               | 113/06   |  |          |  |  |          |  |          |          |  |  |
| Final | įĝ                                     | 3  | ŀ  |          | ļ  |  |          |  |          |          |  |  |
| -     | Ō                                      | 5/4  | ŀ  |          | l  |  |          |  |          |          |  |  |
|       | 1                                      |  | ┢─   | ┝        | -  | -  | $\vdash$ |  | -        | $\vdash$ |  |  |
|       | -                                      | $\vdash$   | $\vdash$   | -        |  | ·-   | $\vdash$ |  | _        |          |  |  |
|       | 1<br>2<br>3<br>4<br>5<br>6             | ┢  | -  | -        |  |  |          |  | <u> </u> |          |  |  |
|       | 4                                      | -  | <del> </del>                                     | -        | _  | _  |          | <del>                                     </del> |          |          |  |  |
|       | 5                                      |  | -  | $\vdash$ |  |  |          |  |          |          |  |  |
|       | 6                                      |  | $\vdash$   | $\vdash$ |  |  |          |  |          |          |  |  |
|       |  | $\vdash$   |  | $\vdash$ |  | $\vdash$   |          |  |          |          |  |  |
|       | 7<br>8<br>9                            |  | $\vdash$   | $\vdash$ |  | _  |          | _  | _        | -        |  |  |
|       | 9                                      | ┢╾   | $\vdash$   | _        | _  | _  | _        | $\vdash$   | _        | $\vdash$ |  |  |
|       | 10                                     | ╁  | $\vdash$   | $\vdash$ | _  | _  | -        | $\vdash$   |          | $\vdash$ |  |  |
|       | 11                                     |  | $\vdash$   | Н        |  | $\vdash$   |          | H  |          |          |  |  |
|       | 12                                     |  | ┢┈   | $\vdash$ |  |  |          | H  |          | -        |  |  |
|       | 10<br>11<br>12<br>13<br>14<br>15<br>16 | $\vdash$   | $\vdash$   |          | <del>                                     </del> | <del>                                     </del> | <u> </u> | $\vdash$   | -        |          |  |  |
|       | 14                                     | <del>                                     </del> | _  | $\vdash$ | <del>                                     </del> | $\vdash$   | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$ |  |  |
|       | 15                                     | ╁  | _  | $\vdash$ |  | _  | $\vdash$ | _  |          | _        |  |  |
|       | 16                                     | <del>                                     </del> | ┝  | _        | _  | _  |          | _  | _        | $\vdash$ |  |  |
|       | 17                                     | $\vdash$   | $\vdash$   | $\vdash$ |  | <u> </u>   | -        | -  |          |          |  |  |
|       | 18                                     | ┢  | -  | -        |  |  |          |  |          |          |  |  |
|       | 18<br>19                               | ┢  | <del> </del>                                     | ┝        | _  | _  | ┢        | _  |          |          |  |  |
|       | 20                                     | $\vdash$   | $\vdash$   | $\vdash$ |  |  |          | $\vdash$   |          |          |  |  |
|       | 21                                     | i/   | <del>                                     </del> | H        |  |  |          |  |          |          |  |  |
|       | 22                                     | ĭ  | <del> </del>                                     | $\vdash$ |  |  |          |  |          |          |  |  |
|       | 21<br>22<br>23<br>24<br>25             | 1  | $\vdash$   |          |  |  |          | -  | -        |          |  |  |
|       | 24                                     | Ħ  |  |          |  |  |          |  |          |          |  |  |
|       | 25                                     | Н  |  |          |  | $\vdash$   |          |  |          |          |  |  |
|       | 26                                     | I  | -  |          |  |  |          |  |          | _        |  |  |
|       | 26<br>27<br>28                         | П  |  |          |  | · ·  |          |  | -        |          |  |  |
|       | 28                                     | П  | İ  |          |  |  |          |  |          |          |  |  |
|       | 29                                     | П  |  |          |  |  |          |  |          |          |  |  |
|       | 29<br>30                               | T  |  |          |  |  |          |  |          |          |  |  |
|       | 31<br>32                               |  |  |          |  |  |          |  |          |          |  |  |
|       | 32                                     | T  |  |          |  |  |          |  |          |          |  |  |
|       | 33                                     | П  |  |          |  |  |          |  |          |          |  |  |
|       | 34                                     | I  |  | -        |  |  |          |  |          | -        |  |  |
|       | 35                                     | $\Pi$  |  |          |  |  |          |  |          |          |  |  |
|       | 36                                     |  |  |          |  |  |          |  |          |          |  |  |
|       | 37                                     | П  |  |          |  |  |          |  |          |          |  |  |
|       | 38                                     | П  |  |          |  |  |          |  |          |          |  |  |
|       | 39                                     | П  |  |          |  |  |          |  |          |          |  |  |
|       | 40                                     | П  |  |          |  |  |          |  |          |          |  |  |
|       | 41                                     | 17   |  |          |  |  |          |  |          |          |  |  |
|       | 42                                     |  |  |          |  |  |          |  |          |          |  |  |
|       | 43                                     |  |  |          |  |  |          |  |          |          |  |  |
|       | 44                                     | $\prod$  |  |          |  |  |          |  |          |          |  |  |
|       | 45                                     |  |  |          |  |  |          |  |          |          |  |  |
|       | 46                                     | $\prod$  |  |          |  |  |          |  |          |          |  |  |
|       | 47                                     |  |  |          |  |  |          |  |          |          |  |  |
|       | 48                                     |  |  |          |  |  |          |  |          |          |  |  |
|       | 49                                     | $\coprod$  |  |          |  |  |          |  |          |          |  |  |
|       | 50                                     | П  |  |          |  | Г  |          |  |          |          |  |  |

| Clai     | m                          | Γ        |          |          |   | Date | e  |              |  |              |     | Cla   | im       | Г        |          |             |  | Date     |            | _            |          | $\neg$   |
|----------|----------------------------|----------|----------|----------|---|------|--|--------------|--|--------------|-----|-------|----------|----------|----------|-------------|--|----------|------------|--------------|----------|----------|
| T        |                            | 1        |          |          |   |      |  |              |  |              |     |       |          | 1/       |          |             |  |          |            |              |          |          |
|          | Original                   | 1776     |          |          |   |      |  |              |  |              |     | Final | Original | 1/3/06   |          |             |  |          |            |              | li       |          |
| :        | Ë                          | シ        | l        |          |   |      |  |              |  |              |     | ᇤ     | Ę        | //       | 1        |             |  |          |            |              |          |          |
| -        | O                          | 56       |          |          |   |      |  |              |  |              |     |       | 0        | %        | ł        |             |  |          |            |              |          |          |
| ╗        | 1                          |          | Τ        |          |   |      |  |              |  |              |     |       | 51       | T        | Π        |             |  |          |            |              |          |          |
| 1        | 2                          |          |          |          |   |      |  |              |  |              | 1   |       | 52       | H        |          |             |  |          |            | Т            |          |          |
| 1        | 3                          |          |          |          |   |      |  |              |  |              | 1   |       | 53       | IT       | T        |             |  |          |            | _            |          |          |
| +        | 4                          |          | 1        | _        |   |      |  | _            |  |              | i I |       | 54       | H        | $\vdash$ |             | _  |          |            | $\vdash$     | П        | $\dashv$ |
| $\top$   | 5                          |          | $\vdash$ |          |   |      |  |              |  |              | i   |       | 54<br>55 | Н        | H        |             | _  |          |            |              | -        |          |
| +        | 3<br>4<br>5<br>6<br>7      |          | $\vdash$ |          |   |      |  |              |  |              | 1   |       | 56       | H        | $\vdash$ |             | _  |          |            |              |          | $\dashv$ |
| +        | 7                          |          | $\vdash$ | $\vdash$ |   | _    |  |              |  |              | 1   |       | 57       | H        | ┢        | -           | _  | _        | -          | -            |          | =        |
| $\dashv$ | Ŕ                          |          | $\vdash$ | $\vdash$ |   |      | -  |              | _  | -            |     |       | 58       | +        | -        |             |  |          | -          |              |          |          |
| +        | 8<br>9<br>10               |          | $\vdash$ | _        |   |      | Н  |              | _  | _            |     |       | 59       | Н        | +        | $\vdash$    | _  |          | -          |              | -        | $\neg$   |
| +        | 10                         |          | $\vdash$ | $\vdash$ | _ |      |  | _            |  | _            |     |       | 60       | Н        | ┼─       | -           | _  |          | -          | -            | -        | $\dashv$ |
| +        | 11                         |          | $\vdash$ | $\vdash$ |   | _    |  |              |  |              |     |       | 61       | H        | $\vdash$ | $\vdash$    | H  |          | $\vdash$   | Н            | Н        |          |
| +        | 12                         |          | -        | $\vdash$ |   |      |  | -            |  |              |     |       | 62       | Н        | $\vdash$ | -           | -  |          | ├          | H            |          |          |
| +        | 12<br>13                   | $\vdash$ | $\vdash$ | $\vdash$ |   |      | <del>                                     </del> | -            |  | -            |     |       | 63       | +        | +-       | $\vdash$    | <del> </del>                                     | $\vdash$ | $\vdash$   | $\vdash$     | Н        |          |
| +        | 14                         |          | -        | $\vdash$ |   | _    | $\vdash$   | <u> </u>     | $\vdash$   | $\vdash$     |     | -     | 64       | H        | $\vdash$ | $\vdash$    | <u> </u>   | $\vdash$ | $\vdash$   | <del> </del> | Н        | $\dashv$ |
| +        | 15                         | —        | ├—       | $\vdash$ |   |      | $\vdash$   | <del> </del> |  |              |     |       | 65       | V        | -        |             | <u> </u>   | _        |            | -            | $\vdash$ |          |
| +        | 15<br>16                   | ├-       | ⊢        | -        |   |      |  | ├—           | <del>                                     </del> | <del> </del> |     |       | 66       | <u>'</u> | +-       | ├           | <del>                                     </del> |          | H          | $\vdash$     | $\vdash$ |          |
| +        | 17                         | _        | $\vdash$ | $\vdash$ |   |      |  |              |  |              |     |       | 67       | _        |          |             | _  |          | $\vdash$   |              | -        | -        |
| -        | 17                         |          | ├        | -        |   |      | _  |              |  |              |     |       | 07       | -        | -        | -           | Ь.   |          |            |              |          |          |
| +        | 18                         |          | <u> </u> | <u> </u> |   |      | <u> </u>   |              | <u> </u>   |              |     |       | 68       |          | ـ        |             | <u> </u>   | ļ        | -          | <u> </u>     |          |          |
| +        | 19                         |          | <u> </u> |          |   |      | _  |              |  |              |     |       | 69       | _        |          | _           |  |          | _          |              |          |          |
| 4        | 20<br>21<br>22             | _        | <u> </u> |          |   |      |  |              |  |              |     |       | 70       | -        | -        | <u> </u>    | <u> </u>   |          |            |              |          |          |
| 4        | 21                         | V        | _        |          |   |      |  |              |  |              |     |       | 71       | _        | _        |             | _  |          | lacksquare |              |          |          |
| 4        | 22                         | 4        | _        |          |   |      | <u> </u>   |              |  |              |     |       | 72       | ļ        | ļ        |             | _  | _        | _          | Щ            |          | _        |
| _        | 23                         | Ц.       | _        | Щ        |   |      |  |              |  |              |     |       | 73       | _        | _        |             | _  |          | _          |              | Ш        | $\Box$   |
| 4        | 24                         | Щ        | <u> </u> | Ш        |   |      |  |              |  |              |     |       | 74       | ļ        | ļ        |             |  |          | _          |              |          |          |
| _        | 25                         | Щ        | <u> </u> |          |   |      |  |              | _  | <u> </u>     |     |       | 75       | _        | _        |             |  |          | _          | _            | Щ        | $\perp$  |
| _        | 26                         | Щ        |          |          |   |      |  | L            | _  | L.           |     |       | 76       |          | <u> </u> | _           |  | _        | _          | lacksquare   |          |          |
| 4        | 27                         | Щ        | <u> </u> |          |   |      | ļ.,  |              |  |              |     |       | 77       | _        | _        |             |  |          |            |              |          |          |
| _        | 28<br>29                   | Ш        | L        |          |   |      |  | _            | _  | _            |     |       | 78       | _        | <u> </u> | _           |  |          | _          | Ш            |          |          |
| _        | 29                         | Щ        | L        |          |   |      |  |              |  |              |     |       | 79       | _        |          |             |  |          | _          |              |          |          |
| _        | 30                         | Щ        |          |          |   |      |  | <u> </u>     |  |              |     |       | 80       |          | <u> </u> |             |  |          |            |              |          |          |
| _        | 31<br>32                   | Ш        |          |          |   |      |  |              |  |              |     |       | 81       |          |          |             |  |          |            |              |          |          |
| _        | 32                         | 4        | _        |          |   |      |  |              |  |              |     |       | 82       | L        | <u> </u> |             | -  |          |            |              |          |          |
|          | 33                         |          | L        |          |   |      |  |              |  |              |     |       | 83       |          |          |             |  |          |            |              |          |          |
| $\perp$  | 34<br>35<br>36<br>37<br>38 | 1        |          |          |   |      |  |              | L  | L            |     |       | 84       |          |          |             |  |          |            |              |          |          |
| ┙        | 35                         | L        |          | Ш        |   |      | L_   |              |  |              |     |       | 85       |          | <u>L</u> |             |  |          | L_         | L            | Ш        |          |
|          | 36                         | Ш        |          |          |   |      |  |              |  |              |     |       | 86       |          |          |             |  |          |            |              |          |          |
| ot       | 37                         | 1        |          |          |   |      |  |              |  |              |     |       | 87       |          | L        |             | L  |          |            |              |          |          |
|          | 38                         |          |          |          |   |      | L  |              |  |              |     |       | 88       |          |          |             |  |          |            |              |          |          |
|          | 39<br>40                   | $\Box$   | oxdot    |          |   |      |  |              |  |              |     |       | 89       |          |          |             |  |          |            |              |          |          |
|          | 40                         | $\perp$  |          |          |   |      |  |              |  |              |     |       | 90       |          |          |             |  |          |            |              |          |          |
| $\Box$   | 41                         | $I_{-}$  |          |          |   |      |  |              |  |              |     |       | 91       |          |          |             |  |          |            |              |          |          |
|          | 42                         |          |          |          |   |      |  |              |  |              |     |       | 92       |          |          |             |  |          |            |              |          |          |
|          | 43                         | Т        |          |          |   |      |  |              |  |              |     |       | 93       |          |          |             |  |          |            |              |          |          |
|          | 44                         | Т        |          |          |   |      |  |              |  |              |     |       | 94       |          |          |             |  |          |            |              |          |          |
| T        | 45                         |          |          |          |   |      |  |              |  |              |     |       | 95       |          |          |             |  |          |            |              |          |          |
| T        | 46                         |          |          |          |   |      |  |              |  |              | 1   |       | 96       |          |          | П           |  |          |            |              |          |          |
| T        | 47                         | 1        | Г        |          |   |      |  |              |  |              |     |       | 97       |          | Π        |             |  |          | Г          | Г            | П        |          |
| T        | 48                         | Т        |          |          |   |      |  |              | T  | l            |     |       | 98       |          | П        |             |  |          |            |              |          |          |
| T        | 49                         | T        |          |          |   |      |  |              |  |              |     |       | 99       |          | Τ        |             |  |          |            | Г            |          | $\Box$   |
| $\top$   | 50                         | $\top$   | Г        |          |   |      |  |              |  | İ            | i l |       | 100      | Г        | 1        |             | П  |          | Г          | <u> </u>     |          | $\dashv$ |
| _        |                            |          |          |          |   |      |  | _            |  | L            | , , |       |          | Ь_       | -        | <del></del> | Ь—   | Ь        | Ь.         |              |          | ىب       |

| Cla      | aim  | Date         |   |          |  |          |              |          |          |          |  |
|----------|--|--------------|---|----------|--|----------|--------------|----------|----------|----------|--|
|          |  |              |   |          |  |          | · · ·        |          |          |          |  |
| Final    | Original   |              |   |          |  |          |              |          |          |          |  |
|          | 101<br>102<br>103<br>104<br>105<br>106               |              |   |          |  |          |              |          |          |          |  |
|          | 102  |              |   | L        |  |          |              |          |          |          |  |
|          | 103  |              |   | <u> </u> |  |          |              |          |          |          |  |
|          | 104  |              |   | _        | ļ  |          | <u> </u>     | _        |          |          |  |
|          | 105  | _            | _ | <u> </u> | <u> </u>   | _        | <u> </u>     |          | _        |          |  |
|          | 105  | _            | _ | H        | $\vdash$   | _        | <u> </u>     | _        |          |          |  |
|          | 107  |              |   |          | $\vdash$   | $\vdash$ | ┢            |          |          | $\vdash$ |  |
|          | 108<br>109<br>110                                    |              |   |          | <u> </u>   |          | -            |          |          |          |  |
|          | 110  |              |   | $\vdash$ | $\vdash$   |          |              |          |          | $\vdash$ |  |
|          | 111  |              | - | $\vdash$ |  | _        | ┢            | -        | _        |          |  |
|          | 111<br>112   |              | _ |          | $\vdash$   |          |              |          | -        |          |  |
|          | 113  |              |   |          |  |          |              |          |          |          |  |
|          | 113<br>114<br>115                                    |              |   |          |  |          |              |          |          |          |  |
|          | 115  |              |   |          |  |          |              |          |          |          |  |
|          | 116<br>117<br>118                                    |              |   |          |  |          |              |          |          |          |  |
|          | 117  |              |   |          |  |          |              |          |          |          |  |
|          | 118  |              |   |          |  |          |              |          |          |          |  |
|          | 119  | _            | _ | _        | ļ  |          | <u> </u>     | _        |          |          |  |
|          | 120  |              |   |          | ļ  |          | <u> </u>     | _        |          |          |  |
|          | 121  |              |   | -        | ļ  |          | ├            | -        |          | $\vdash$ |  |
|          | 122  |              |   |          |  |          | <del> </del> |          | -        | _        |  |
| _        | 124  | _            | _ | -        | -  |          | ┢            | -        | -        | $\vdash$ |  |
|          | 125  | _            | _ | ┢        | <del>                                     </del> | -        | _            |          |          | Н        |  |
|          | 119<br>120<br>121<br>122<br>123<br>124<br>125<br>126 |              |   |          | $\vdash$   |          | $\vdash$     |          |          |          |  |
|          | 127  |              |   |          |  |          |              |          |          |          |  |
|          | 127<br>128<br>129<br>130<br>131                      |              |   | Г        |  |          |              |          |          |          |  |
|          | 129  |              |   |          |  |          |              |          |          |          |  |
|          | 130  |              |   |          |  |          |              |          |          |          |  |
|          | 131  |              |   | Ľ        | Ĺ  |          |              |          |          |          |  |
|          | 132<br>133   |              |   | L.,      |  |          |              |          |          |          |  |
|          | 133  |              |   | <u> </u> | _  |          | _            |          |          |          |  |
|          | 134  |              |   | <u> </u> | _  |          |              |          |          |          |  |
|          | 135  |              | _ | ┝        | _  |          |              |          |          |          |  |
| _        | 135<br>136<br>137                                    |              |   | -        |  | -        |              | _        |          |          |  |
|          | 138  |              |   | H        |  | H        |              |          |          | -        |  |
|          | 138<br>139   |              |   | _        | -  |          | _            | -        |          |          |  |
|          | 140  | Т            | _ | Ι_       | <del></del>                                      |          |              |          |          | П        |  |
|          | 141  | П            |   | $\Box$   | Г  | П        | Т            |          |          |          |  |
|          | 142  |              |   |          |  |          |              |          |          |          |  |
|          | 143  |              |   |          |  |          |              |          |          |          |  |
|          | 144  |              |   |          |  |          |              |          |          |          |  |
|          | 145  | L.           |   | <u> </u> |  | $\Box$   |              |          |          |          |  |
|          | 146  | $oxed{oxed}$ |   | <u> </u> | <u> </u>   | <u> </u> | <u> </u>     | <u> </u> |          |          |  |
|          | 147  | L            |   | _        | <u> </u>   | <u> </u> | <u> </u>     |          |          |          |  |
|          | 148  | $\vdash$     | _ | _        | $\vdash$   | <u> </u> | <u> </u>     |          | _        | $\sqcup$ |  |
| <u> </u> | 149  | <u> </u>     | _ |          | <u> </u>   | $\vdash$ | <u> </u>     | $\vdash$ | <u> </u> | $\sqcup$ |  |
| L        | 150  |              | Щ | <u> </u> |  | L_       | <u> </u>     | Щ        | <u> </u> | Ш        |  |